

From glowbugs@theporch.com Mon Dec 30 07:55:14 1996  
Return-Path: <glowbugs@theporch.com>  
Received: from uro (localhost.theporch.com [127.0.0.1])  
by uro.theporch.com (8.8.4/AUX-3.1.1)  
with SMTP id HAA17925;  
Mon, 30 Dec 1996 07:51:33 -0600 (CST)  
Date: Mon, 30 Dec 1996 07:51:33 -0600 (CST)  
Message-Id: <199612301351.HAA17925@uro.theporch.com>  
Errors-To: ws4s@infoave.net  
Reply-To: glowbugs@theporch.com  
Originator: glowbugs@theporch.com  
Sender: glowbugs@theporch.com  
Precedence: bulk  
From: glowbugs@theporch.com  
To: Multiple recipients of list <glowbugs@theporch.com>  
Subject: GLOWBUGS digest 398  
X-Listprocessor-Version: 6.0c -- ListProcessor by Anastasios Kotsikonas  
X-Comment: Please send list server requests to listproc@theporch.com  
Status: 0

#### GLOWBUGS Digest 398

Topics covered in this issue include:

- 1) Re: Which VFO to build?  
by rdkeys@csemail.cropsci.ncsu.edu
- 2) Book Needed  
by Doug <doug@sunrise.alpinet.net>
- 3) Re: Ocean Hopper, cont.  
by "Robert M. Bratcher Jr." <bratcher@worldnet.att.net>

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Date: Sun, 29 Dec 1996 20:13:46 -0500 (EST)  
From: rdkeys@csemail.cropsci.ncsu.edu  
To: gekko95@ix.netcom.com  
Cc: rdkeys@csemail.cropsci.ncsu.edu (), glowbugs@theporch.com  
Subject: Re: Which VFO to build?  
Message-ID: <9612300113.AA114402@csemail.cropsci.ncsu.edu>

> Which would give the best output when multiplied? I don't think I could  
> ever get a stable VFO if I tried to bandswitch the coils.  
>  
> Dave WB7AWK

Dave and other vfo builders.....

Regarding vfo's, the use of a Dow electron coupled circuit is recommended,

unless you are out on a tour de force, for the fun of it.

Bandswitching works very well, generally. You just need to use good solid switches of ceramic rather than fibre or phenolic stuff. Size the switch to handle a 100 watt load and on a vfo it will be quite effective. Space the coils about 2 inches apart minimally for reduced interaction. Use coils about 1 inch in diameter and 2.5 inches long in a series tuned Colpitts AKA Clapp oscillator, as probably the best. A Hartley is usually second best, with a Colpitts third best. Use larger coils if you have space. Wire with no. 14 wire, minimally, and use good solid mounts, everywhere. On the capacitor shaft, use a double shaft coupling to minimize torsional shaft twisting problems due to shaft misalignments. Make sure the capacitor is a good double bearinged one, with heavy bearings and wipers, and likewise 100 watt sized.

It is more advantageous to use multipliers, rather than switching for ultimate stability, but switches, if properly sized and constructed do a fine job in my hands. A heterodyne system is the best if you want rock stability, but hey, on a glowbug, some slight character is tolerable in the signal, and right nice. Character in a multiplier system gets multiplied as the frequency goes up, so still make the oscillator section rock stable, if possible.

If using a multiplier system, use a 100 watt final coil minimally for the oscillator coil, and GOOD ceramics as padders, and a very good 100 watt sized capacitor for tuning. Don't ever use underrated components for best stability. Such a coil for 160M can be 2 inches in diameter and about 6 inches long, wound of no. 12 or 14 wire. No. 16 will do in a pinch. Don't use standard miniductor stock, unless it is 100 watt rated. A coil of about 25 turns should do, well, padded with transmitting micas or ceramics to bring it down to 160 and with a 50pf variable or at most a 100pf variable as the tuning cap (I prefer to use a 25 pf size, or at most a 35pf size, since most of 160 is not used, and doubling up to 80 one gets good coverage from a small capacitor).

Hint.... think OVERKILL in rating vfo stuff, and that is usually always best.

73/ZUT DE NA4G/Bob UP

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Date: Sun, 29 Dec 1996 20:34:57 -0700

From: Doug <doug@sunrise.alpinet.net>  
To: glowbugs@theporch.com  
Subject: Book Needed  
Message-ID: <32C73861.2258@alpinet.net>

Hi fellow Glowbuggers...I need a copy of the 15th edition of the Radio Handbook, by Bill Orr, Editors and Engineers. There is a couple articles in there I'd like to look through and possibly build the amps they are about. So, if someone out there has a copy and would be willing to part with it, or loan it for a while, I'd be glad to pay UPS both ways and if you'd like to sell it, we can work out a deal.

I've quit getting any postings from the group...I hope it's not something serious. So, if all is going well, let me know and I'll re-subscribe.

Thanks, Happy New Year

Doug Dunn, K7YD  
Livingston, MT

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Date: Mon, 30 Dec 1996 06:38:52 -0600  
From: "Robert M. Bratcher Jr." <bratcher@worldnet.att.net>  
To: jkh@lexis-nexis.com  
Cc: Multiple recipients of list <glowbugs@theporch.com>  
Subject: Re: Ocean Hopper, cont.  
Message-ID: <3.0.32.19961227132302.006b2178@postoffice.worldnet.att.net>

I've got a large Allied book (dark red & brown cover) which has the ocean hopper as one of the projects. Never got around to building it though...

Robert M. Bratcher Jr.  
E-mail to:  
bratcher@worldnet.att.net  
Record collector, 8mm, super 8, 16 and 35mm Film collector.  
I like old radio's too.  
Collins, Hallicrafters, National & Hammurland are my Favorites!

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End of GLOWBUGS Digest 398  
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